

Grub4Dos ReadMe

Grub4dos is a versatile boot loader capable of dual/multi-booting DOS, Windows, Linux and other operating systems. Can be used to select the operating system to load when multiple operating systems are available. Also It can be used to load an operating system when the existing boot sector or partition boot sector have become corrupted.

A new copy of bootddmmy.7z or bootddmmy.iso can be found at

<http://fastweb.sdf-eu.org/>

<http://www.arbornet.org/~fastweb/>

Please check and download the new file

Preface:

This guide is primarily aimed at Windows users, but is also relevant to Linux users.

Grub4dos code can be written to the boot sector MBR or partition boot sector of a device. Alternatively grldr can be loaded via an existing operating system (via the NT loader ntldr during the boot process of Windows XP or Windows 7 bootmgr).

To simplify the boot process, if Grub4dos code is installed in the MBR of a hard disk device type, then all (supported) hard disks/partitions and USB devices are analyzed for grldr. Supported file systems:

- FAT16\FAT32
- NTFS
- EXT2\EXT3

If Grub4dos code is installed in the boot sector of a partition then grldr must be present on the boot partition.

If Grub4dos code is installed to a CD or USB device, then grldr must be present on the boot device.

Once loaded grldr, an embedded menu is executed. This menu look for the configuration file menu.lst. If menu.lst is not found then a command shell is started.

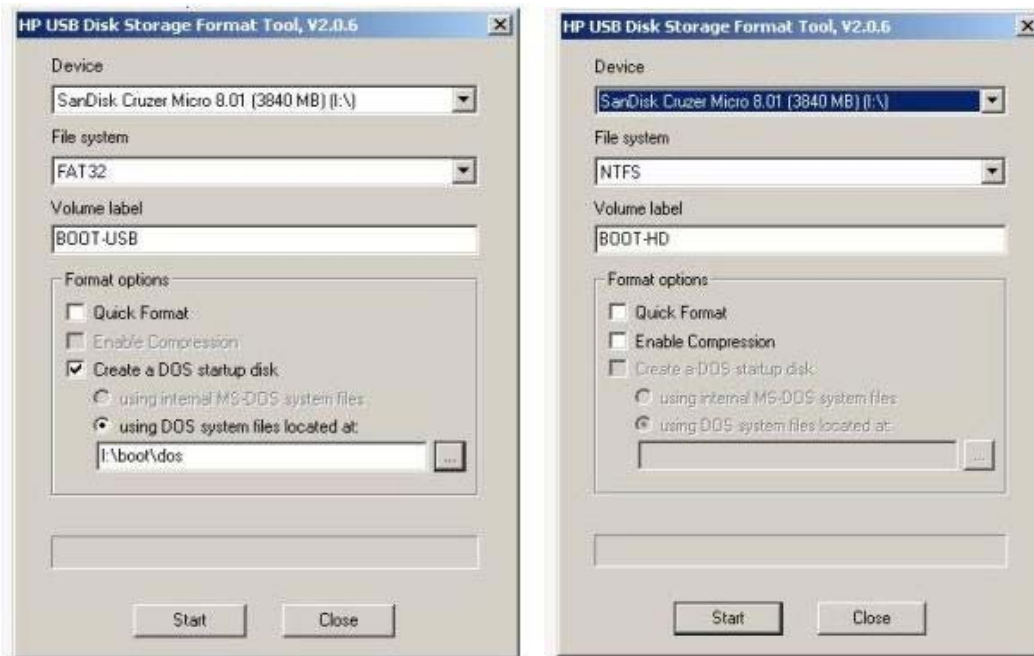
How Install Grub4Dos to an external USB Device

1. Commissioning :

Format the device using the \boot\tools\hpusbfbw.exe

For USB key use the Fat32 file system and using DOS system files located at \boot\dos

For external HD format as NTFS the device



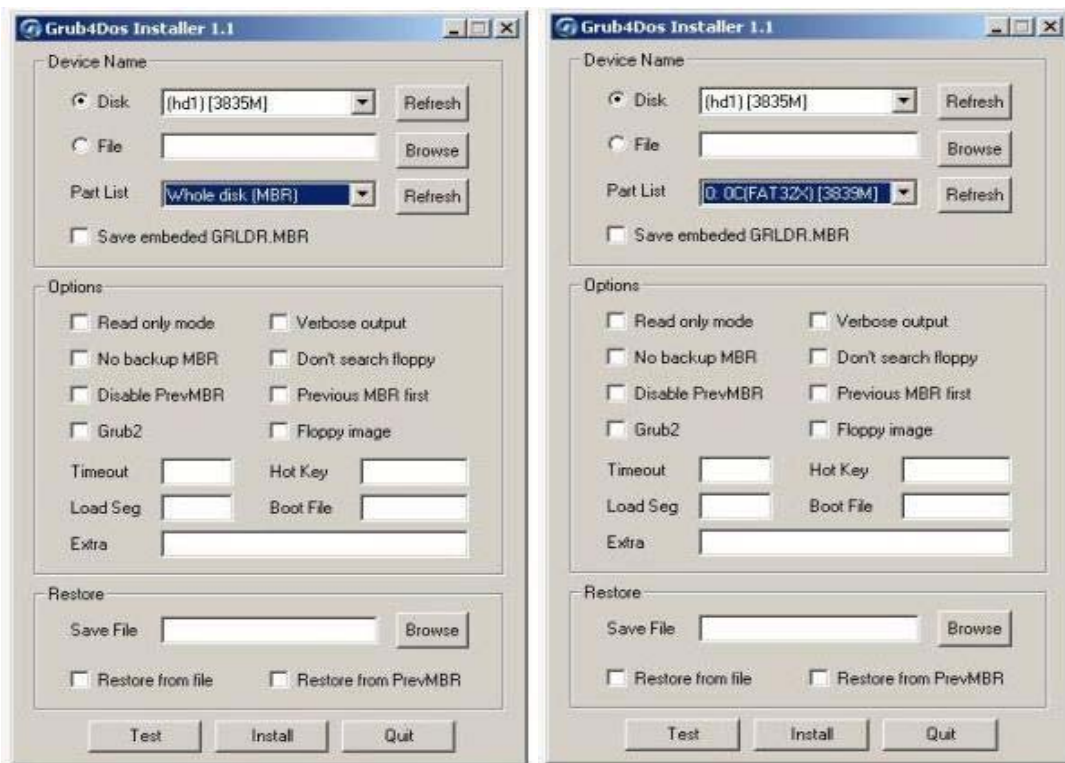
2. Next Task:

Install Grub4dos code in the MBR of a USB device and the first primary partition boot sector using the \boot\tools\Grub_Gui.exe.

Install Grub4dos code in an empty primary partition boot sector of the hard internal HD disk using the \boot\tools\Grub_Gui.exe (notice: NOT corrupt Windows boot loader).

On internal HD not install Grub4Dos to the MBR, if you need a bootmanager to choose between some primary partition try with GAG.

Try first without install, and then install and configure GAG to MBR.



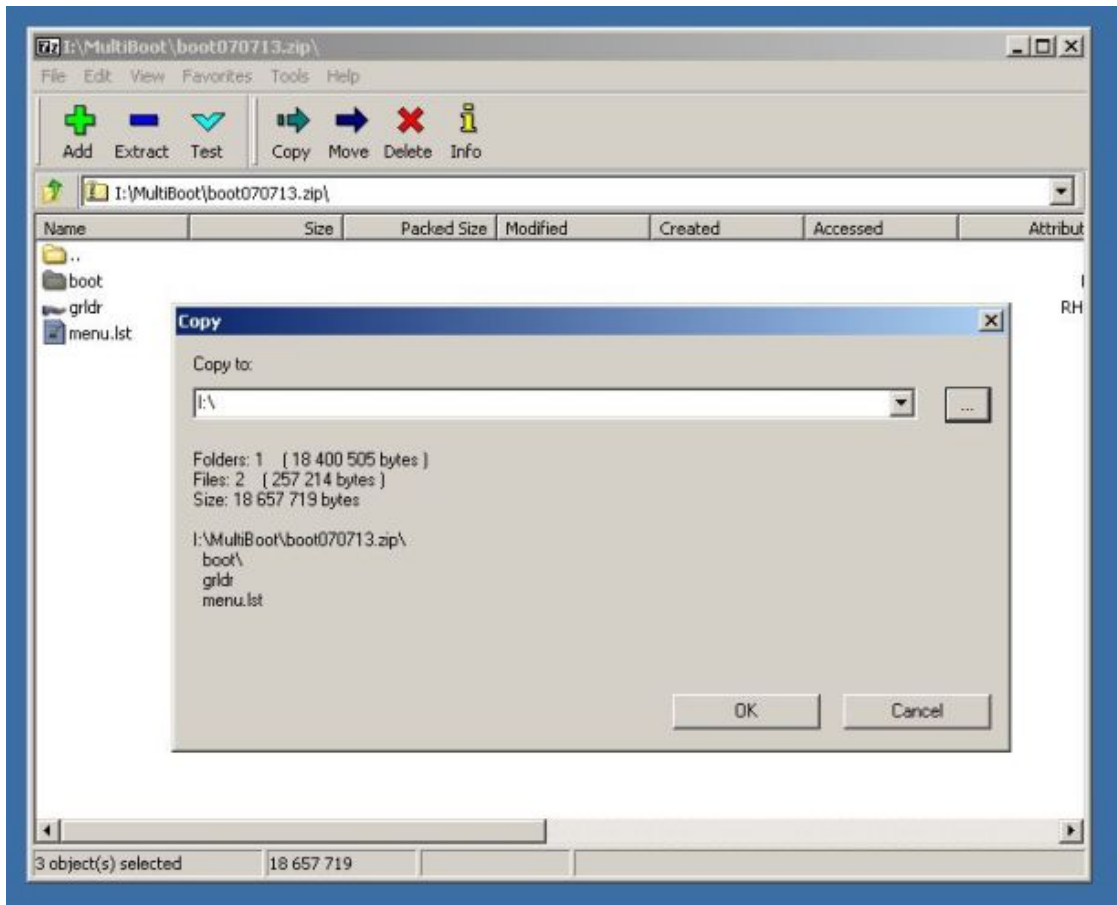
3. Final operation:

Copy all boot files to the device

For example, expand bootddmmy.7z or bootddmmy.iso to the device

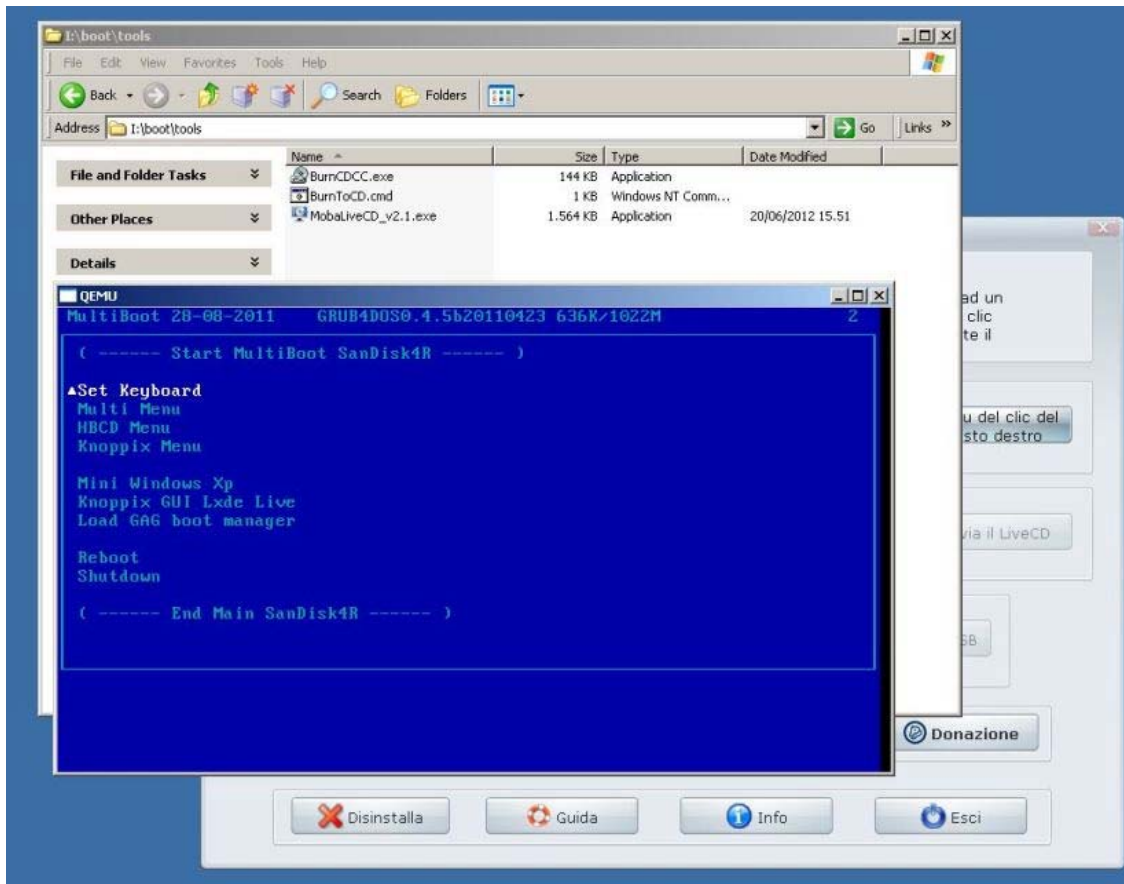
Check the file grldr and menu.lst

Use 7-Zip Manager to expand archive



4. Check only emulated boot :

Check if the device is now bootable using \boot\tools\MobaLiveCD.exe



5. Copy the other files:

Now copy all the necessary files to the device such as KNOPPIX or HBCD.

For KNOPPIX copy from the original iso \boot as KNOPPIX\boot.

6. Check real boot :

Boot from physical device bypass installed operating system.

For example, press ESC or F12 or CANC/DEL when the BIOS is starting

(Check the of your PC)

For HD installation copy \boot\grub\menu-hd.lst to \boot\grub\menu.lst and to \menu.lst

Personalize menu.lst and others *.lst files in the \boot\grub\ with an editor such as \boot\tools\BootICE.exe

Gru4Dos loaded on a working Windows XP operating system

1. Copy all boot files:

Copy all boot files in the Windows boot NTFS partition

For example, expand bootddmmyy.7z or bootddmmyy.iso to device C:\

Check the file grldr and menu.lst

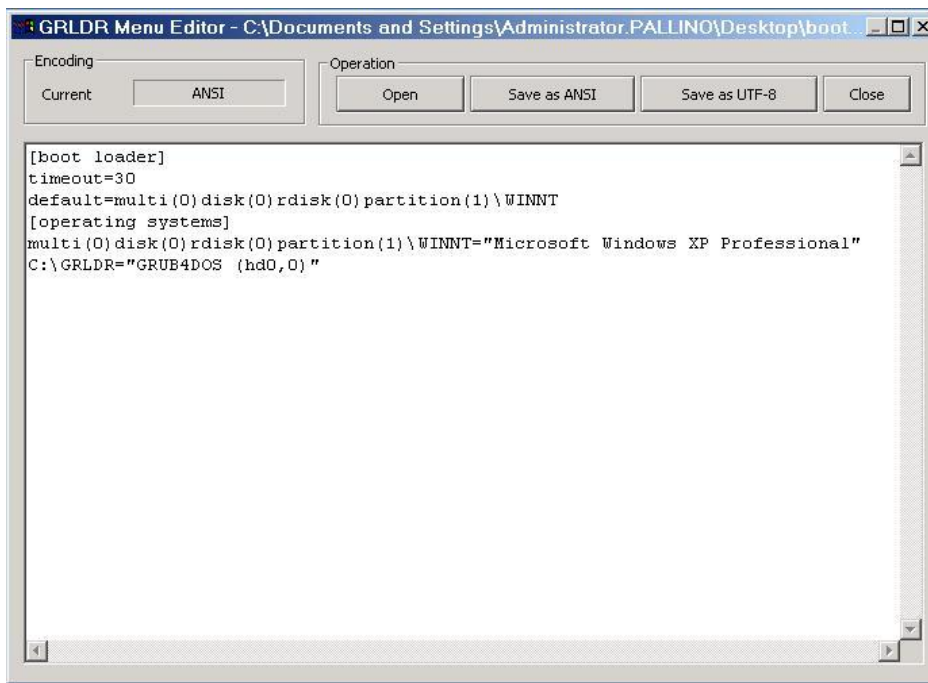
2. Save a backup copy of the boot.ini file:

Copy the file C:\boot.ini file in C:\boot.win

3. Edit the boot.ini file:

With an editor like \boot\tools\BootICE.exe add a new line at the end of boot.ini file as this example:

Some examples are in the \boot\ntfs directory



4. Try restarting Windows:

Verify the presence of two possibilities:

- > Transactions of the Windows start normally
- > Grub4Dos load and show menu.lst

Gru4Dos loaded on a working Windows 7 operating system

1. Copy \boot\grub

Copy only directory grub, for example, expand bootddmmyy.7z or bootddmmyy.iso and copy only grub directory to the Windows NTFS partition as C:\boot\grub

N.B. C:\boot is already present on the Windows 7 installation
Do not overwrite existing files in windows

2. Attempt copying only 2 files :

Copy only the boot.ini and menu.lst files from C:\boot\grub to C:

Try to reboot and check for the presence of two possibilities:

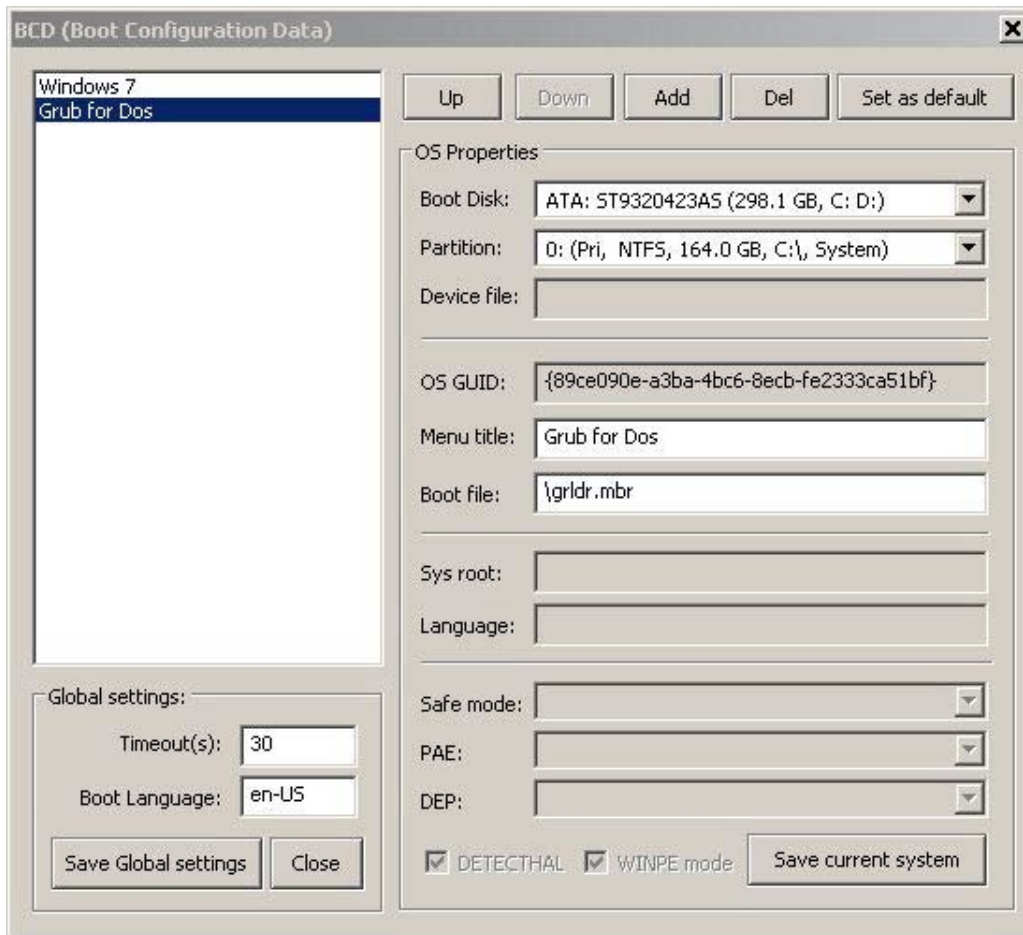
- > Transactions of the Windows start normally
- > Grub4Dos load and show menu.lst

Remove only the boot.ini file to return to previous set mode

3. If the above does not work change the BCD database of original bootmgr :

Copy only the grldr, grldr.bin and menu.lst files from C:\boot\grub to C:

Use only this editor \boot\tools\BootICE.exe
Add a realmode boot entry (Grub4dos etc)
Save current system



Try to reboot and check for the presence of two possibilities:

- > Transactions of the Windows start normally
- > Grub4Dos load and show menu.lst

To return to previous set mode use the editor `\boot\tools\BootICE.exe` and delete Grub4Dos reference.

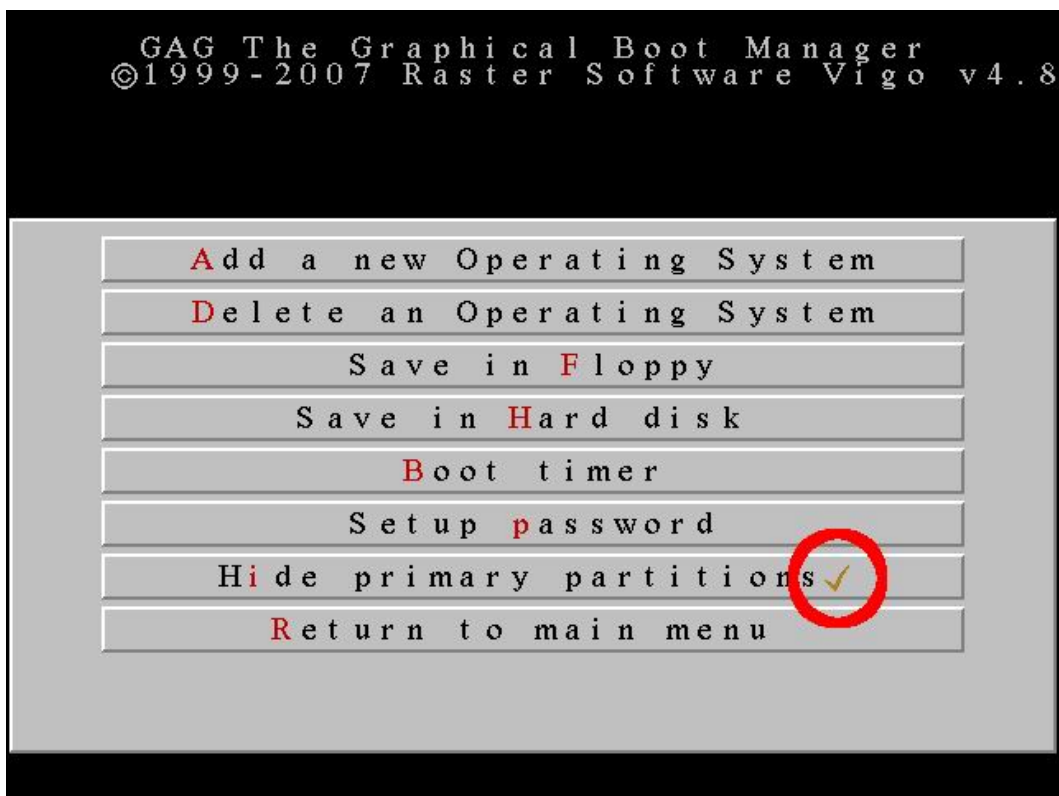
Switch from a working Windows operating system and O.S. on others primary partitions

1. Install GAG on master boot record:

Attempt first to boot from GAG 401 without install then install GAG 410 on HD:

NB Warning: it is not easy to reinstall original MBR !

Install and configure GAG to MBR, set the timer to start the default operating system.



How make a new CD or DVD

1. Make a workspace:

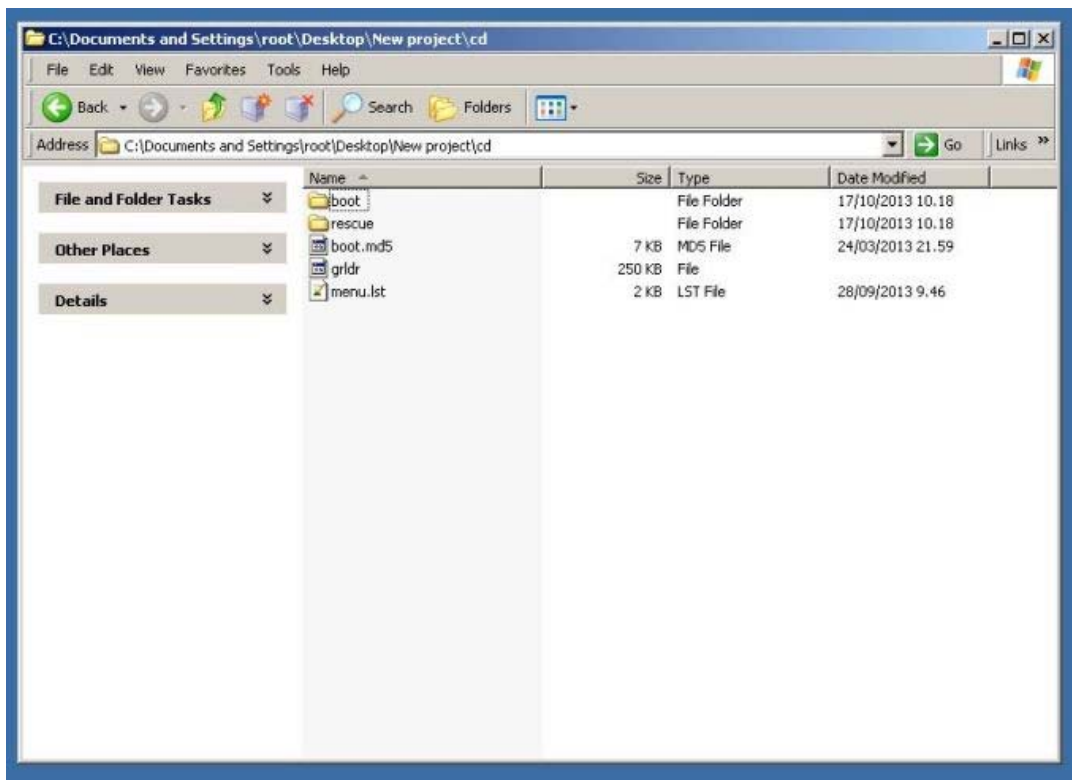
Make a working directory and inside a directory named CD.

Now copy all files from bootddmmy.7z or bootddmmy.iso inside CD\ and add all the necessary files such as KNOPPIX or HBCD.

For KNOPPIX copy original \boot as CD\KNOPPIX\boot.

Copy CD\boot\grub\menu-cd.lst to CD\boot\grub\menu.lst and to CD\menu.lst

Personalize the menu.lst and others *.lst files in the directory CD\boot\grub\ with an editor such as \boot\tools\BootICE.exe



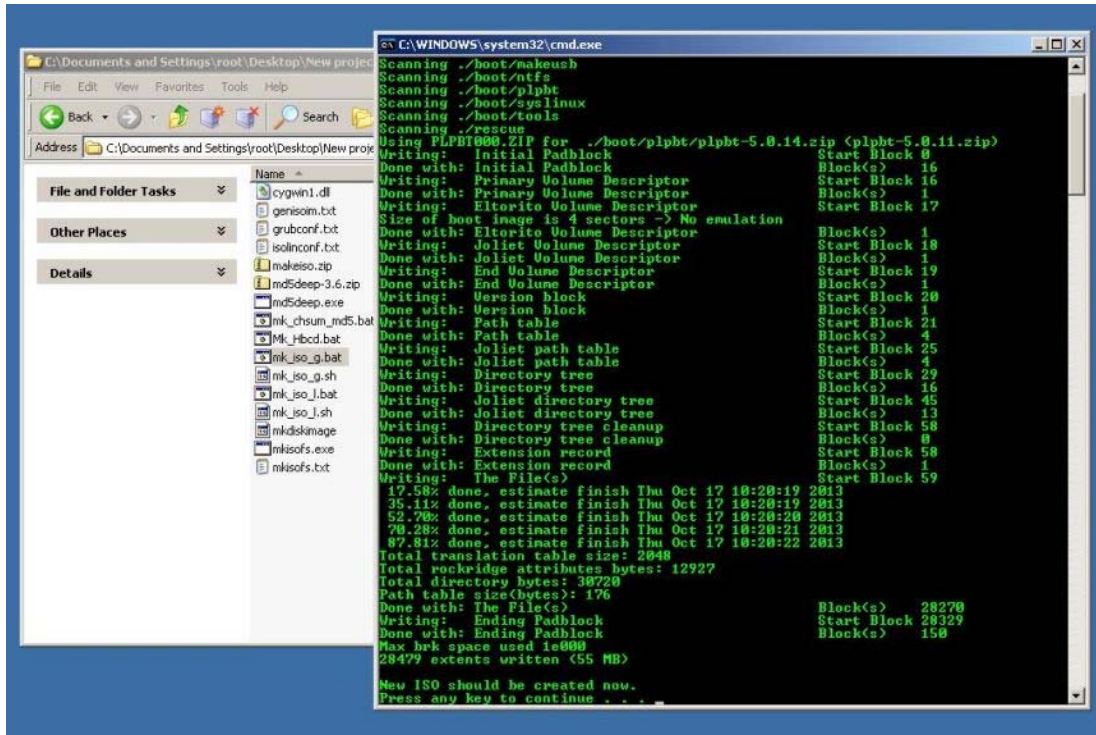
2. Make a new cksum:

Create a checksum file with \boot\makeiso\mk_cksum.bat
rename CD\zzzcksum.md5 to CD\cksum.md5 and remove last line
with an editor such as \boot\tools\BootICE.exe

3. Make a new ISO:

Create a new iso file with `\boot\makeiso\mk_iso_g.bat`

(Default name is GrubMulti.iso in working directory)



4. Test boot only :

Verify if the new iso file is bootable using `\boot\tools\MobaLiveCD.exe`

5. Burn the new iso :

Burn the new iso file using `\tools\Burn_CDCC.exe`

At low speed and check Finalize.

6. Check real boot :

Boot from CDROM device bypass the operating system installed

For example, press ESC or F12 or CANCEL/DEL when the BIOS is starting

(Verify the BIOS settings of your PC)

